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HEALTH AND SAFETY PLAN
FOR
REESER'S LANDFILL SITE
UPPER MANCUNGIE TOWNSHIP, PENNSYLVANIA

JUNE 1987

A P P R O V E D
AS FINAL

Signature
PA. Remedial Response Section

EPA Work Assignment No. 377-3LJ7
REM II Document No.: 384-PP1-OP-ESFR

Health and Safety Plan Revision: 1 Date: June 1987 Page: 1

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REESER'S LANDFILL SITE HEALTH AND SAFETY PLAN

1.0 INTRODUCTION

## 1.1 BACKGROUND

This site-specific Health and Safety Plan has been prepared as an addition to the REM II Health and Safety Assurance Manual (HSAM). The overall organization structure and responsibilities for the supervisory personnel for health and safety of the REM II contract have been described in the Manual.

For this project, Mr. Michael Coia, of WESTON will be the Site Manager. The designated Site Health and Safety Coordinator (SHSC) will be Mr. Raymond Scheinfeld. He will report directly to the Site Manager and maintain contact with the Regional Health and Safety Supervisor (RHSS). The SHSC will ensure that provisions of the Health and Safety Plan are being implemented. The RHSS, Mr. Martin O'Neill, will perform audit functions, and assist when on-site activities are impacted by changing conditions. An individual with appropriate field and health/ safety experience designated by the SHSC will be responsible for specific location health and safety concerns when two activities are on-going at different locations. The Subcontractor will be required to assign a health and safety m; anager for the site activities and will be required to follow new OSHA standards for providing at least 40 hours of health and safety training for its employees. It is anticipated that Ms. Nancy Metzer will provide these health and safety services.

Prior to personnel conducting activities at the Reeser's landfill site, each individual in the field is required to read this Health and Safety Plan and sign the Health and Safety Plan

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12

Health and Safety Plan Revision: 1 Date: June 1987 Page: 2

Signature form. The original form will be maintained by the SHSC with copies forwarded to the RHSS and Health and Safety Manager (HSM).

The Site Health and Safety Plan Form (SHSPF) is attached to this document and supplies a condensed version of information contained in this document.

### 1.2 SUBCONTRACTORS

In compliance with the newly adopted OSHA regulations for hazardous waste operations, the REM II team has adopted formal health and safety requirements for its subcontractors. Protection of the health and safety of subcontractors is provided by ensuring that individuals employed by the subcontractor and working on or adjacent to a REM II site are aware of potential risks and hazards associated with their assigned activities, are properly trained, and comply with the appropriate requirements of the HSAM, including medical monitoring.

The subcontractor will work under the guidelines of this Health and Safety Plan (HSP). However, the subcontractor may choose to develop his/her own HSP. The subcontractor can utilize the HSAM as a guideline for development of a site-specific HSP for their own employees. If the subcontractor chooses to operate under his/her own plan, the plan shall be approved by the HSM. In all cases, the subcontractor is required to work under a HSP that meets HSAM policies and procedures. The Subcontractor will be required to assign a health and safety manager for the stie activities and will be required to follow new OSHA standards for providing at least 40 hours of health and safety training for its employees. In addition, the subcontractor is required to provide all equipment for subcontractor personnel.

Regardless of whether the subcontractor adopts the REM II HSM, or develops his/her own, before subcontractor personnel can work on

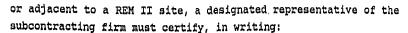
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Health and Safety Plan

Revision: 1

Date: June 1987

Page: 3



- O The he/she has been given authority by the Board of Directors of the Subcontracting firm to agree to and implement the procedures as stated in the HSAM and the specific HSP in effect.
- o That all Subcontractor personnel involved in work activities on and adjacent to the site comply with the following requirements:
  - Understand that the work is to be performed on a known hazardous waste site and that protective clothing and respiratory protective devices may be required.
  - Understand and have agreed to the provisions of the specific HSP in effect.
  - Have been examined by a licensed physician in accordance with 29 CFR 1910.120 and 1910.134 and that the physician has certified these individuals to be medically qualified to perform the stated work assignment and medically qualified to use respiratory protective devices to perform the stated work assignment.
  - Have been trained in accordance with the applicable sections of 29 CFR 1910 and 29 CFR 1926/1910.
  - Agree to work under the direction of the SHSC.
- All equipment provided to Subcontractor personnel by the Subcontractor is NTOSH/MSHA approved as appropriate and is in Working condition, as specified by the manufacturer.
- o All Subcontractor respiratory and personnel protection programs that apply to the site are in compliance with 29 CFR 1910 and 29 CFR 1926/1910.

If the Subcontractor has adopted the REM II HSP, the Subcontractors designated representative must certify, in writing:

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Health and Safety Plan Revision: 1 Date: June 1987 Page: 4

o That all Subcontractor personnel shall comply with the provisions of the HSAM and the applicable provisions of the REM II HSP.

If the Subcontractor has developed his/her own HSP, the Subcontractor's designated representative must:

O Agree that all Subcontractor personnel shall comply with the provisions of the REM II Health and Safety Assurance Manual, the Contractor's HSP, and the Subcontractor's HSP, and that this plan is in compliance with the applicable sections of 29 CFR 1910 and 29 CFR 1926/1910.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 5

## 2.0 REESER'S LANDFILL SITE HEALTH AND SAFETY PROGRAM.

The following sections in conjunction with the Site Health and Safety Plan form (SHSPF), fully describe the hazards posed to personnel involved in RI activities at the Reeser's landfill site and the protection program planned.

## 2.1 SITE FEATURES AND BACKGROUND

Pages 1-4 of the SHSPF give a summary of site features and background. In addition to Sections 1 and 2 of the Sampling and Analysis Plan provide an extensive survey of site features. This document will be available to site personnel.

### 2.2 HAZARD ANALYSIS

The required levels of protection have been determined based upon review of available data relating to particular source areas, preliminary air analyses and initial site sampling information. The RHSS and SHSC has determined the levels and types of respiratory and body protection necessary based on the location of field activities, knowledge of chemicals of interest, and type of potential exposure based on the planned activity.

Organic vapor monitoring has been conducted to determine action levels for field activities (See Section 4.0). Monitoring will continue during the sitework activities, utilizing established NIOSH and USEPA-approved procedures by using a photoionization detector and organic vapor analyzer. An oxygen indicator and explosimeter will be utilized for intrusive drilling activities.

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Health and Safety Plan Revision: 1 Date: June 1987 6

Page:

Baseline air monitoring will be conducted in potential source areas as follows:

- A Safety Sweep of the Work Area was completed prior to RI field work, during preparation of the Work Plan and Sampling and Analysis Plan, and was used in evaluating personnel protection levels for non-intrusive activities.
- ٥ Periodic and continuous monitoring will be conducted during all phases of the RI field work to confirm ambient air levels and to document that personnel protection levels are adequate.
- In addition, personnel monitoring will be used to ٥ confirm/document exposure conditions during the two tasks of greatest potential hazard, on-site well installation and test pit construction.

Specific action levels are defined in the SHSPF. These action levels are consistent with or more conservative than those specified in the REM II HSM. The action levels will be used by the SHSC to upgrade or downgrade specific protection measures as appropriate. Downgrades will be confirmed with the RHSS who will be responsible for notifying the REM II HSM.

## 2.3 CONTAMINANTS OF CONCERN

In August 1983 the FIT III field team conducted the Preliminary Assessment/Site Inspection (PA/SI) of Reeser's Landfill. results of the PA/SI are described in the Sampling and Analysis Plan. A home well survey was performed at this time along with collecting on-site and off-site samples. The results of the FIT III investigations were used as a basis for the Site Contamination Survey presented in the Sampling and Analysis Plan. This information was also used to recommend field investigation activities for the RI/FS. A brief summary of the FIT III team data and toxicological conclusions is presented within this section.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 7

A number of wells in Haafsville were sampled including the wells at the Hilber, Merkel, and Reed residences along with the Lehigh County Water Authority well No. 6. The Reed well showed 50 ug/L lead and 14 ug/L cadmium. Elevated concentrations of iron and manganese were noted in the Reed well sample and at lower levels in other ground water samples. Tron and manganese affect aesthetic quality of the water but do not pose a potential toxicological hazard. The Merkel well sample was the only ground water sample collected where an organic compound was identified. At this location acetone was found at concentrations of 41 ug/L. No health hazards are posed by the low concentrations detected in this water sample. Further, the presence of acetone alone in one sample may be suspect, since acetone is a commonly used field decontamination solvent.

Surface water samples were taken at an upstream and downstream location in Iron Run, the sedimentation pond and ponded water in the pit where burning material were excavated. Only the downstream Iron Run water sample identified evidence of contamination. Mercury was detected at 0.6 ug/L.

Soil and sediment samples were taken at an upstream and downstream location, the unnamed tributary, the sedimentation pond, the burn pond, and stained soils. The sample from the burn pond showed 0.6 mg/kg of mercury and the stained soil sampled had 1.05 mg/kg mercury. These concentrations are elevated with respect to mercury concentrations normally found in non-polluted soils, which are typically on the order of 0.01 mg/kg. Low levels (less than detection limits of 400 ug/kg or 800 ug/kg) of polynuclear aromatic hydrocarbons (PAHs) and phenol were identified in the sediment sample collected from an unnamed tributary some distance east of the site.

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Health and Safety Flam Revision: 1 Date: June 1987 Page: 8

The primary contaminants of concern are cadmium, lead, and mercury. Cadmium and lead concentrations were detected in residential wells at levels meeting or exceeding the EPA's Maximum Contaminant Level (MCL). Mercury was detected at levels exceeding the EPA's Ambient Water Quality Criteria for active mercury in surface water samples taken downstream of the facility. Other contaminants of concern, however not identified at the facility, include methane, and vinyl chloride, due to their frequent appearance at municipal landfills.

The primary contaminants of concern and their health effects are described below:

### o <u>Lead</u>

Early effects from lead exposure are non-specific, however symptoms such as decreased physical fitness, fatigue, headaches, and others may occur. Later symptoms include anemia, abdominal cramping, constipation, and occasional nausea and vomiting. The principle target organs and symptoms from lead exposure are the kidneys, central and peripheral nervous system, and th blood. The symptoms and target organ may vary depending on specific lead compounds.

### o <u>Cadmium</u>

Exposure to cadmium and certain cadmium compounds occur through inhalation or ingestion. Local exposure to cadmium fumes and dust can result in irritation to the respiratory system, in which pulmonary edema, dyspnea, coughing, tightness in the chest, and substernal pain may occur. Other symptoms such as headaches, chills, nausea, and diarrhea may also occur. The principal target organs include the respiratory system, kidneys, prostate glands, and blood.

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Health and Safety Plan Revision: 1 Date: June 1987 Page: 9

## o Mercury

Mercury and compounds of mercury are highly toxic by skin absorption, ingestion, and inhalation. The principle target organs are the skin, respiratory system, central nervous system, kidney, and eyes. Symptoms from exposure to mercury depending upon the specific compound may include coughing, dyspnea, bronchitis, pneumonia, insomnia, paralysis, ataxia, and many others.

### o <u>Vinyl Chloride</u>

Vinyl chloride has been utilized in the manufacturing of plastics and refrigerants, organic synthesis, and is frequently found at municipal landfills. It is a cancer causing agent in occupationally exposed individuals. Short-term exposure may cause symptoms of intoxication, drowsiness, abdominal pain, pains in joints, skin irritation, and frostbite. Long-term exposure can cause skin thickening, skin discoloration, and liver, and spleen damage.

#### o <u>Methane</u>

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Methane is usually identified with municipal landfills and is an odorless ,colorless, and tasteless gas. Although it is relatively non-toxic it poses a serious fire explosive hazard. Five to fifteen percent by volume with air forms an explosive mixture. It also reacts violently with chlorine and bromine in light (explosively in direct sunlight). The flash point of methane is  $-306\,\mathrm{F}$  ( $-100\,\mathrm{C}$ ), and its autoignition temperature  $1000\,\mathrm{F}$  ( $537\,\mathrm{C}$ ).

## 2.4 PLANNED ACTIVITIES AND LEVELS OF PROTECTION

The following chart lists the specific tasks of the Reeser's Landfill RI, the primary level of protection, and the monitoring devices required for each. The primary level of protection is defined as that level of protection that will implemented during initial activities. Subsequent upgrades/downgrades will be based upon action levels, site conditions, and monitoring results.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 11

## 2.5 PROTECTIVE EQUIPMENT

Specific requirements for levels of protection and protective equipment are defined in the SHSPF. The primary levels of protection planned for the Reeser's landfill site are Level C and D.

Level D protection will consist of the following:

- o Cotton or Tyvek coveralls
- Steel toe/shank chemical resistant boots or safety work shoes.
- o Chemical resistant disposable overboots.
- o Hard hat.

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- o Safety glasses.
- Latex (surgical) gloves or cotton work gloves.

This level of protection will be used in support areas where contamination has not been detected through monitoring instruments, skin contact is unlikely, and when subsurface soils have not been disturbed. Level D protection will be worn by all personnel as a minimum.

Level C protection will consists of the following:

- o Steel toe/shank chemical resistant boots or safety work shoes with chemical resistant overboots.
- Full face air purifying respirator (MSHA/NIOSH approved) with organic vapor, high efficiency cartridge.
- o Tyvek or Saranex coveralls (material dependent upon degree of contact, site conditions, and chance of encountering wet matrix)
- o Cotton coveralls (inner).
- o Surgical inner gloves.
- Nitrile outer gloves.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 12

- o Hard hat.
- Splash shield, if wet matrix and splash hazard present.

Level C protection will be utilized during initial intrusive activities on-site and when action levels dictate upgrade from Level D for off-site activities.

Personnel will start each activity in the primary level of protection as prescribed in this plan. Upgrades in protection will be based upon established action levels and existing site condition. If upgrades are initiated, the SHSC will be responsible for notifying the RHSS. If conditions persist that qualify the activity's levels of protection to be downgraded (i.e., ambient, breathing zone readings are "0"), the SHSC must confirm that decision with the RHSS. The RHSS will be responsible for clearing that decision with the HSM.

## 2.6 WORK ZONES AND DECONTAMINATION

Given the nature and size of the Reeser's Landfill site, there will be many locations on-site which will require delineated work zones. For tasks which will take place at specific locations on-site, (i.e., well installation), work zones will be established (Hot Zone, Contamination Reduction Zone, Support) and decontamination procedures will be localized. For tasks which will require a series of locations (i.e., geophysical surveys), work zones and decontamination procedures will be centralized at the support/command area on-site. The following is a generalized discussion of work zone delineation and decontamination organization.

Health and Safety Plan

Revision: 1 Date: June 1987

Page: 10

Activity	Subcontracting Services	Level D	Level C	Continuous Monitoring
Site Survey		x		Initial: HNU Survey OVA
Site Walk-through		х		Initial: HNU Survey OVA
Geophysical Techniques		х		CGI/O2 (1) HNU
On-site well Construction	х		x <sup>(2)</sup>	CGI/O <sub>2</sub> HNU OVA
Off-site Well Construction	х		<sub>X</sub> (2)	CGI/O <sub>2</sub> OVA
On-site well sampling			x <sup>(2)</sup>	CGI/O <sub>2</sub> (1) HNU OVA
Off-site well sampling			x <sup>(2)</sup>	CGI/O <sub>2</sub> OVA
Aquifer testing			x <sup>(2)</sup>	CGI/O2 (1) HNU
Test pit Construction	X		x <sup>(2)</sup>	CGI/O <sub>2</sub> OVA HNU

<sup>(1)</sup> Instruments will be utilized to clear a specific well prior to activity commencing. Subsequent levels of protection will be determined by results of monitoring well "head space" and breathing zone surrounding well. This is in accordance with accepted REM IT Procedures.

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<sup>(2)</sup> It is anticipated that Level C personnel portection will be required only during the initial performance of the designated tasks, and that air monitoring will clear these activities for downgrade to Level D personnel protection.

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Health and Safety Plan Revision: 1 Date: June 1987

Page: 13

For work that is to be performed in potentially contaminated areas, the areas will be divided into designated zones, as follows:

- O Zone 1 (Exclusion Zone) The active investigation will take place in this area. All personnel entering this zone will do so from the decontamination/equipment supply area. They will don the appropriate safety equipment as specified by the SHSC, and will enter and exit the area via the prescribed route.
- o Zone 2 (Contamination Reduction Zone) Decontamination procedures for personnel and equipment will take place in this area.

The exclusion zone (Zone 1) is separated from the contamination reduction zone (Zone 2) by the "hot line." All personnel and equipment crossing the hot line from Zone 1 to Zone 2 will be required to undergo decontamination. The decontamination equipment will be set up at the hot line. Decontamination may be modified in response to the level of contamination to which the worker was exposed during the day.

A typical layout for the decontamination line consists of a series of stations as follows:

- o <u>Station A Equipment Drop</u> A plastic ground sheet on which field equipment is stored temporarily by returning members of the work party during tank changes, rest breaks, etc.
- o Station(s) B Decontamination Tubs -
  - A tub of water to rinse off caked dirt.
  - A wash tub filled with Alconox decontamination solution.
  - A second wash tub filled with rinse solution.

Each wash tub should be equipped with a large sponge and long handled brush. Specific decontamination steps are defined in the SHSPF.

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Health and Safety Flam. Revision: 1 Date: June 1987 Page: 14

Small equipment will be decontaminated in a similar manner as that described for personnel decontamination using the same wash and rinse steps. For large pieces of equipment, loose soil or solid residues will be removed from the equipment prior to leaving Zone 1. A decontamination station will be established for large vehicles at the landfill by constructing a gravel sump area, allowing drainage into the landfill. Large vehicle decontamination will be performed at this station using a steam jenny. The decontamination solvents and any potential solvent contaminated rinse waters will be allowed to drain directly into the landfill. The personnel and equipment decontamination sequence utilized for each task will be specific for optimal contamination reduction and efficiency.

At locations where solvents are in use, decontamination personnel will utilize the appropriate level of protection (Level C). Periodic air monitoring in the breathing zone of decontamination workers will be accomplished with the HNu or OVA.

## 2.7 EMERGENCY CONTACTS

Table 2-1 lists emergency contacts and organizations that may be notified in the event of an emergency. This Table will be posted in the support zone/facility convenient for site personnel to access.

Health and Safety Plan

Revision:

June 1987 Date:

Page:

# Table 2-1 EMERGENCY CONTACTS: (POST IN SUPPORT AREA)

CONTACT	NAME	PHONE
CDM 24-Hour Emergency Line	N/A	(202) 896-4138
REM II Health and Safety Mgr	M. Mathamel	(703) 968-0900
Regional Health and Safety Supervisor	M. O'Neill	(215) 524-0638
Site Manager	Mike Coia	(215) 692-3030 Ext. 2413
Regional Site Project Manager	Vic Janosik (USEPA)	(215) 597-8996
State Environmental Agency	PA DER	(215) 861-2070
State Spill Contractor		
Fire Department, Lehigh Co. Dis	st 8	(215) 437-5252
Police Department		(215) 821-6377
State Police, Allentown Troop		(215) 691-6110
Health Department		(215) 437-7760
Poison Control Center		(215) 433-2311
Organization		Phone
USEPA Environmental Response Te	eam	(201) 321-6660
US Coast Guard Environmental Re	esponse Team	(800) 424-8802
Association of American Railro	ads Response Team	(202) 293-4048
CHEMTREC		(800) 424-9300
Dow Chemical Emergency Response	8	(517) 636-4400
DuPont Chemical Emergency Response	onse	(302) 774-1000
Monsanto Chemical Emergency Res	sponse	(618) 271-5835
National Foam Center Emergency	Response	(215) 363-1400
National Foam Center Emergency	Response	(215) 363

Medical Emergency

Hospital Name: Lehigh Valley Hospital

Phone: (215) 776-8001 (General Information)

(215) 776-8111 (Emergency Room)

Hospital Address: Route 309 at Junction of Route 29

Name of Contact at Hospital:

Name of 24-hour Ambulance: Lehigh County Dispatcher

Phone: 437-5252

Route to Hospital:

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Health and Safety Plan Revision: 1 Date: June 1987

Page: 16

#### 3.0 SITE CONTINGENCY PLAN

The health and safety program for this project has been established to provide assurance that operations on the site will be conducted with the minimum adverse impact on worker health and safety. These procedures notwithstanding, it is prudent to develop supplementary emergency response procedures to cover those extraordinary conditions that may occur at the site. The Site Health and Safety Coordinator (SHSC) is responsible for ensuring that the site Health and Safety Plan is being implemented properly.

All site personnel will be instructed in emergency response by the SHSC during an on-site training session. The emergency notification checklist and procedures and the site evacuation plan will be conspicuously posted at the working locations at the site, at the site field trailer, and provided to both the guard (guard house) and the USEPA representative.

## 3.1 EMERGENCY PROCEDURES

The emergency procedures presented are not all inclusive, nor should they be thought of as inflexible. Every incident presents a unique situation that must be dealt with by trained personnel working in a calm, controlled manner. In the event of an incident, the prime consideration is to provide the appropriate initial response to assist those in jeopardy without subjecting additional personnel to an unnecessary risk. The SHSC will decide the response action that is necessary; he/she will serve as the emergency response coordinator. The SHSC will be trained in emergency medical procedures. Contact with site personnel during field operations and alerting them in the event of an emergency will be conducted through the use of two-way radios, hand signals or an audible alarm.

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Health and Safety Plan Revision: 1 Date: June 1987 Page: 17

## 3.2 GENERAL CONDITIONS

All accidents and other incidents will be dealt with in such a manner as to minimize the continued health risk of site workers. The vast majority of activities on the site will be conducted by crews working in reasonable proximity to one another. In other isolated cases where less than a full crew is required to perform a task, a "buddy system" will be utilized so that an individual worker will not be unattended in a physically remote area and not be monitored by another worker in the event that an incident occurs. Field crews will also maintain contact with the Field Team Leader or his designee via walkie-talkie.

In the event that an accident/incident occurs, the following procedures are to be followed:

- o First aid or other appropriate initial action will be administered by those closest to the accident/incident. This assistance will be coordinated by the SHSC and will be conducted in a manner to assure that those rendering assistance are not placed in a situation of unacceptable risk. The primary concern is to avoid placing a greater number of workers in jeopardy.
- All accident/incidents will be reported to the Site Manager and the SHSC or their designee. REM II HSM will be notified within 48 hours with the completion of a REM II Incident Report following notification. The Site Manager or his designee on site at the time that the incident occurs shall act in an efficient, rapid, and safe manner. He will decide if off-site assistance and/or medical treatment is required and is responsible for alerting off-site authorities and arranging for their assistance. Alternately, as appropriate he will arrange for a team member to transport a less-seriously injured person to medical assistance.

### 3.3 PHYSICAL INJURY

If an employee working in a contaminated area is physically injured, the planned reaction depends on the type and degree of injury, (consistent with Red Cross first aid procedures), the

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Health and Safety Plan Revision: 1 Date: June 1987 Page: 18

location of the incident, and the existing or potential degree of hazard. Depending on the severity of the injury, emergency medical response may be sought. If the employee can be moved, he will be taken to the decontamination station where contaminated clothing can be removed and first aid administered, while awaiting transportation to a local emergency medical facility.

If the employee cannot be moved from the site of the injury and the immediate potential hazard of the incident to the injured person(s) is not threatening, off-site medical assistance will be obtained (e.g., ambulance, paramedics).

### 3.4 FIRES/EXPLOSIONS

Fire extinguishers will be provided at each work location. If a localized fire breaks out, fire extinguishers will be used to bring it under control. If necessary and feasible, soil or other inert materials will be thrown or pushed on the burning area to extinguish the flames and minimize the potential for spreading. The contract driller may also have a water tanker available for use in the event of a fire. If appropriate, local fire fighting authorities will be contacted for notification and/or assistance.

In the event of an explosion at the site, all personnel are to immediately evacuate the site. The Site Evacuation Plan details the site evacuation signals, routes, and the assembly areas.

No on-site welding is planned. In the event that such welding is required (e.g., to repair a drill rig or the backhoe), the SHSC will work with the welder(s) to ensure that the welding is performed in a safe atmosphere, by monitoring with a portable explosimeter, and that the proper safety procedures/protocols are followed.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 19

### 3.5 SPILLS

The nature of the Reeser's Landfill site limits spills to a small scale and will be prevented by safe work practices. Small spills will be controlled via application of absorbants and construction of dirt berms.

Once the spill or release is controlled, site operations may continue only after approval by the SHSC and the Site Manager.

Any mixture of soil/absorbent and spilled material will be placed in an appropriate plastic-lined staging area for subsequent packaging and disposal. Small spills will be immediately drummed for disposal.

In the event of an on-site incident requiring notification of the emergency contracts, the SHSC or his designee will be responsible for informing the Site Manager.

### 3.6 DOCUMENTATION

The SHSC is responsible for providing a report to the Site Manager detailing the following information concerning an incident:

- Nature of the incident (including date and time, personnel involved).
- Date, time and names of all persons/agencies notified and their response.
- Resolution of the incident (including duration) and the corrective action involved.

This report is to be submitted to the Site Manager within three working days of the resolution of the event.

Health and Safet, Flam. Revision: 1 Date: June 1987 Page: 20

## 3.7 EVACUATION PLAN

In the event that a site emergency necessitates the evacuation of personnel from either specific work zones or the entire site, it will be necessary to follow an established set of procedures. These procedures are to be followed as closely as possible; however, in specific emergency situations, the SHSC and/or the Site Manager may deviate from the procedures to provide a more effective plan for brining the incident under control. The Site Manager is responsible for determining which emergency situations require evacuation.

The site evacuation alarm signal will consist of three long blasts from a portable air horn, repeated at appropriate intervals, until all personnel have been evacuated from the site or accounted for. The portable air horn will be in the possession of the Site Manager, SHSC; or their designee during any field activities and the alarm signal will be tested to ensure that it is audible at all site locations. In addition to the evacuation alarm, field sampling personnel will be kept informed of site conditions and notified of any site incidents via walkie-talkies.

In the event that the site evacuation is called for by the Site Manager, SHSC or their designee, the following actions are to be taken:

- The alarm signal of site evacuation will be activated, and field personnel will be notified of the incident via walkie-talkie.
- No further entry of visitors, contractors, REM II project personnel, or vehicles (other than emergency vehicles) will be permitted onto the site.
- o The main evacuation route for the site is to exit as quickly as possible to Old Route 22 (depending on the existing wind direction). Regrouping area will be primarily the support zone/facility.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 21

- O All team leaders will be responsible for evacuating the field personnel in the team promptly and safely from the site and reporting the personnel evacuated and their location to the Site Manager or the SHSC.
- The daily attendance log of on-site personnel will be used to ensure that all individuals are accounted for. If someone is missing, the SHSC will alert emergency personnel. Control of personnel at the rendezvous point is the responsibility of the Site Manager and the SHSC with the assistance of the security force.

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Health and Safety Plan Revision: 1 Date: June 1987 Page: 22

### 4.0 GENERAL SAFETY GUIDELINES

The following general safety guidelines will be reviewed by all personnel prior to conducting activities at the Reeser's Landfill site.

- o Site personnel will sign a master sheet indicating they have read the site safety plan and will comply.
- o There will be no eating, drinking, or tobacco use in the exclusion or contamination reduction zone.
- All personnel will perform final hand wash/rinse before break activities will commence.
- o All personnel must pass through the contamination reduction zone to enter or exit the exclusion zone.
- o Emergency washing facilities will be on the contamination side of the contamination reduction zone and/or at the work station. This can be accomplished through use of clean spray container.
- Fire extinguishers will be on-site for use on equipment or small fires only.
- o An adequately stocked first aid kit will be on scene at all times during operational hours.
- A morning safety meeting will be conducted on a regular basis for all site personnel. The safety procedures and the day's planned operations should be discussed.
- o No drilling activities will be conducted during thunderstorms or lightening storms. SHSC will consult with the on-site coordinator concerning this determination.
- o A mechanism will be available on-site to facilitate contact of emergency personnel, hospitals, etc. This may be afforded by way of mobile phone.

Health and Safety Plan Revision: 1 Date: June 1987 Page: 23

## 5.0 SITE SPECIFIC TRAINING REQUIREMENTS

All site personnel will attend a site specific training program. The contents of this training program will emphasize the following:

- o Roles and responsibilities for Health and Safety
- Site hazards: physical and chemical
- o Levels of protection
- o Decontamination procedures
- o Monitoring program
- o Cold stress and Heat stress guidelines
- o Emergancy procedures
- o General do's and don'ts

The training will be performed by the SHSC and audited by the RHSS.

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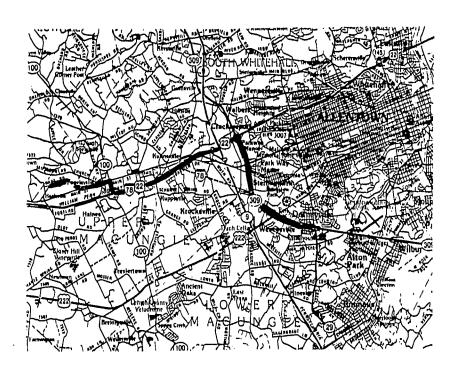
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